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APPLICATION NO.	FILÎNG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 9308	
09/863,594	05/23/2001	Jorg Rheims	VOI0189.US		
7:	590 03/15/2002				
Todd T. Taylor			EXAMINER		
TAYLOR & AUST. P.C. 142 S. Main St.			ALVO, MARC S		
P.O. Box 560			ART UNIT		
Avilla, IN 467	/10		1731	6	
			DATE MAILED: 03/15/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u> </u>				
	Application No.		Applicant(s)	·				
	09/863,594		RHEIMS ET AL.					
Office Action Summary	Examiner		Art Unit					
	Steve Alvo		1731					
The MAILING DATE of this communication ap	pears on the cover s	heet with the c	orrespondence addi	ress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repless of the period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statused and the period for reply will, by statused and the period for reply will.	.136(a). In no event, however ply within the statutory minim I will apply and will expire SI te. cause the application to b	er, may a reply be tin num of thirty (30) day X (6) MONTHS from pecome ABANDONE	nely filed s will be considered timely. the mailing date of this corr () (35 U.S.C. § 133).	nmunication.				
earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1)⊠ Responsive to communication(s) filed on <u>08</u>	February 2002 .							
•	his action is non-fin	al.						
3) Since this application is in condition for allow closed in accordance with the practice unde	vance except for for r <i>Ex parte Quayle</i> , 1	mal matters, p 1935 C.D. 11, 4	rosecution as to the 453 O.G. 213.	merits is				
Disposition of Claims								
4) Claim(s) 1-32 is/are pending in the application.								
4a) Of the above claim(s) <u>20-32</u> is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-19</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and	or election requiren	nent.						
Application Papers	a or							
9) The specification is objected to by the Examin		d to by the Eva	aminer					
10) The drawing(s) filed on is/are: a) acc								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign	ign priority under 35	U.S.C. § 119(	a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:								
1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
<ul> <li>Copies of the certified copies of the prapplication from the International I</li> <li>See the attached detailed Office action for a limit</li> </ul>	iority documents ha Bureau (PCT Rule 1 st of the certified co	ve been receiv 7.2(a)). pies not receiv	ved in this National S					
14)☐ Acknowledgment is made of a claim for dome	stic priority under 35	5 U.S.C. § 119	(e) (to a provisional	application).				
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome								
Attachment(s)								
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) 🔲		nry (PTO-413) Paper No( I Patent Application (PTC					

Application/Control Number: 09/863,594

Art Unit: 1731

Claims 20-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non-elected invention, there being no allowable generic or linking claim.

Election was made without traverse in Paper No. 6. The requirement is repeated and made Final.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over KLUNGNESS et al in view of CARLSMITH et al.

KLUNGNESS et al teaches fluffing calcium oxide or hydroxide is added in a reactor/fluffer to form calcium carbonate. The pulp of KLUNGNESS et al is fluffed in a pressurized refiner or any suitable high shear device (column 7, lines 6-19). CARLSMITH et al teaches that refiners fluff the pulp and make the pulp more porous. It would have been obvious that the refiner makes the pulp more porous, e.g. increases the specific surface, as taught by CARLSMITH et al. IT would have been further obvious theat the refiner of KLUNGNESS et al fluffs the pulp as such is taught by CARLSMITH et al. Or it would have been obvious to substitute the high shear refiner/fluffer of CARLSMITH et al for the high shear refiner of KLUNGNESS et al as KLUNGNESS teaches that any high shear mixing device could be used to agitate the pulp. The claimed conditions of the dependent claims do not appear to differ from the conditions used by KLUNGNESS.

Application/Control Number: 09/863,594

Art Unit: 1731

Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over KLUNGNESS et al in view of CARLSMITH et al as applied to claim 1 above, and further in view of GREEN et al.

Green et al teaches adding calcium carbonate directly into the pulp during agitation rather than precipitating calcium carbonate onto the pulp. It would have been obvious to the artisan that the calcium carbonate of KLUNGNESS could have been added directly into the fluffer (refiner) of KLUNGNESS rather than precipitated by the *in situ* reaction of calcium oxide or hydroxide and carbon dioxide.

Claims 1-14, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over DOELLE.

DOELLE teaches fluffing calcium oxide or hydroxide is added in a reactor/fluffer to form calcium carbonate. The pulp of DOELLE is fluffed in fluffer (18) with the added calcium hydroxide or oxide and the precipitated calcium carbonate that is formed is fluffed in fluffer (20). The fluffers of DOELLE would open up the fibers by increasing the specific surface of the fibers. The claimed conditions of the dependent claims do not appear to differ from the conditions used by DOELLE.

Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over DOELLE as applied to claim 1 above, and further in view of GREEN et al.

Green et al teaches adding calcium carbonate directly into the pulp during agitation rather than precipitating calcium carbonate onto the pulp. It would have been obvious to the artisan that the calcium carbonate of DOELLE could have been added directly into the fluffer of

Page 4 Application/Control Number: 09/863,594 Art Unit: 1731 DOELLE rather than precipitated by the in situ reaction of calcium oxide or hydroxide and carbon dioxide. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Alvo whose telephone number is 703-308-2048. The examiner can normally be reached on 6:00 AM to 2:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703,308-0661. **Primary Examiner** Art Unit 1731 March 3, 2002